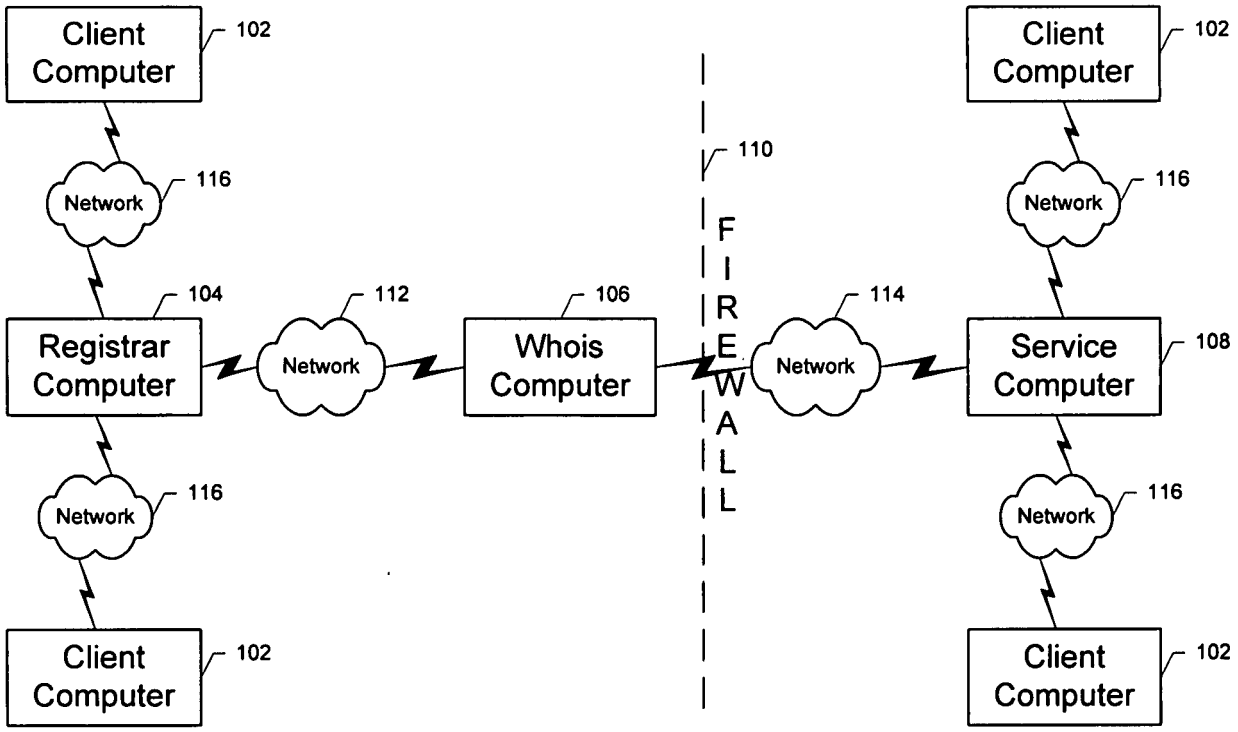
Client Computer
102
Network
116
Registrar Computer
104
Network
112
Whois Computer
106
110
FIREWALL
Network
114
Service Computer
108
Client Computer
102
Network
116
Network
116
Client Computer
102
Client Computer
102
Network
116
Network
116
Client Computer
102

100

Figure 1

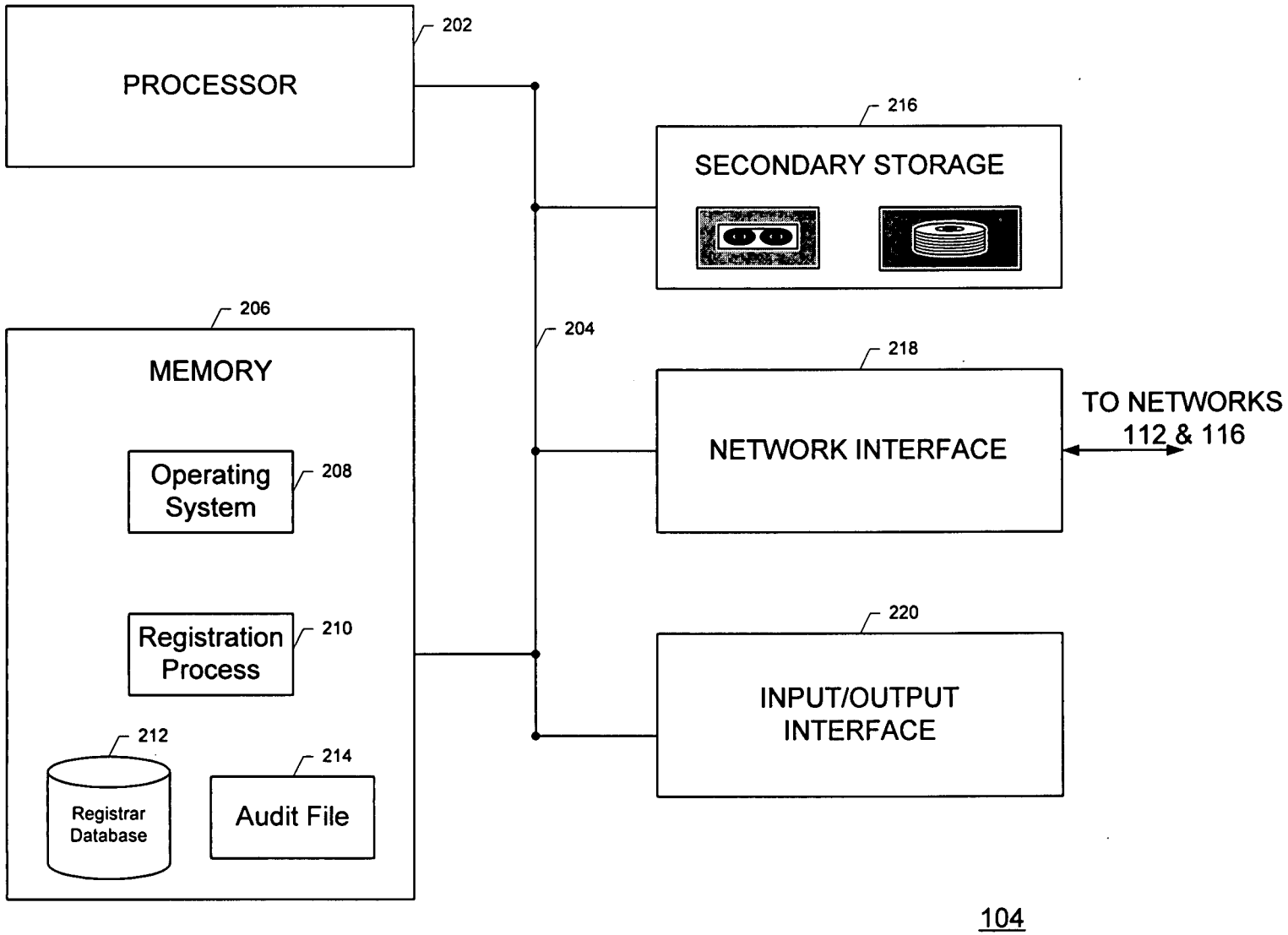
PROCESSOR
202
SECONDARY STORAGE
216
MEMORY
206
204
Operating System
208
NETWORK INTERFACE
218
TO NETWORKS 112 & 116
Registration Process
210
INPUT/OUTPUT INTERFACE
220
212
Registrar Database
214
Audit File
104

Figure 2

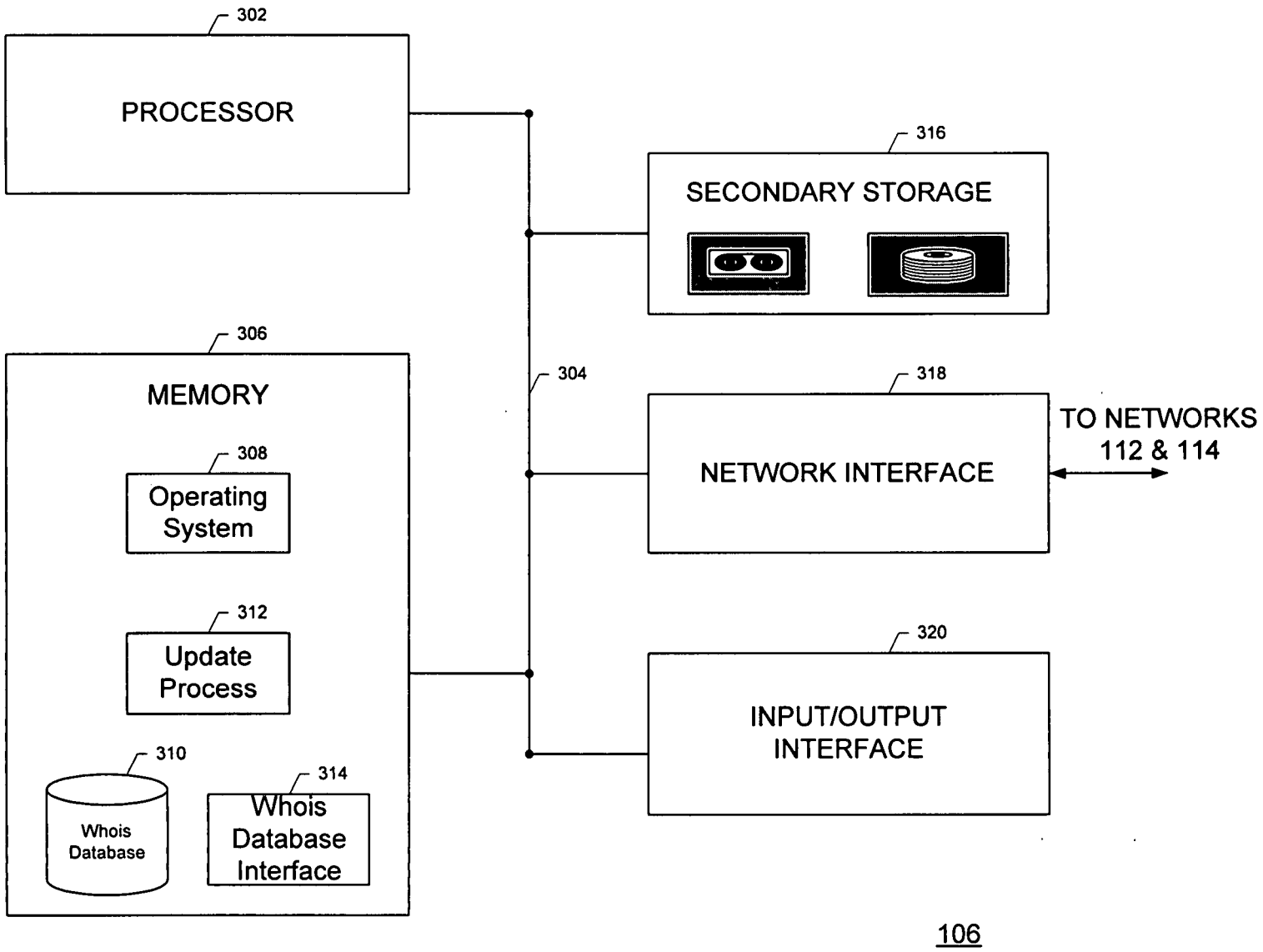
302
PROCESSOR
316
SECONDARY STORAGE
306
MEMORY
304
318
TO NETWORKS
112 & 114
NETWORK INTERFACE
308
Operating System
312
Update Process
320
INPUT/OUTPUT INTERFACE
310
Whois Database
314
Whois Database Interface
106

Figure 3

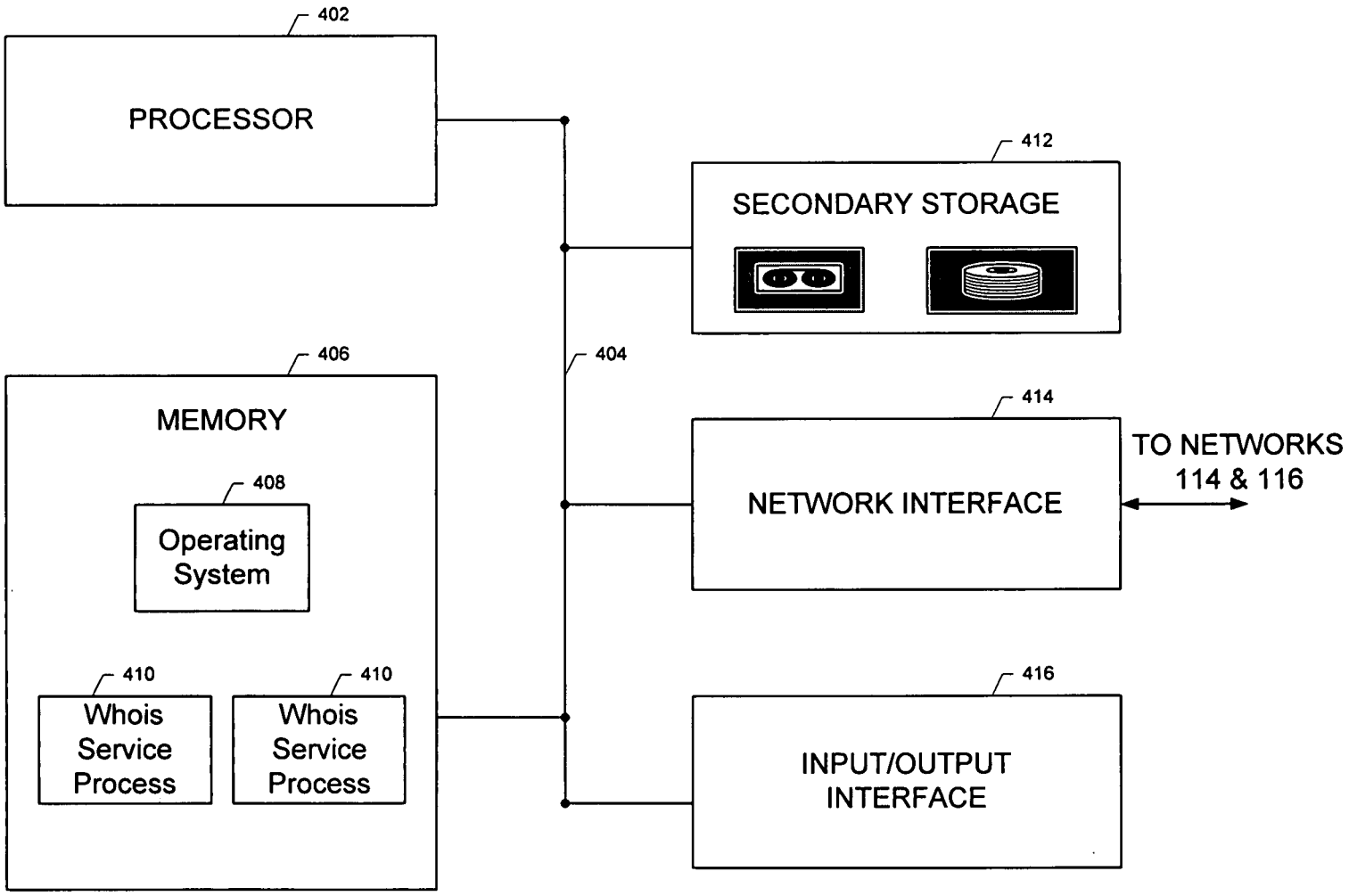
402
PROCESSOR
412
SECONDARY STORAGE
404
406
MEMORY
408
Operating System
414
TO NETWORKS 114 & 116
NETWORK INTERFACE
410
Whois Service Process
410
Whois Service Process
416
INPUT/OUTPUT INTERFACE
108

Figure 4

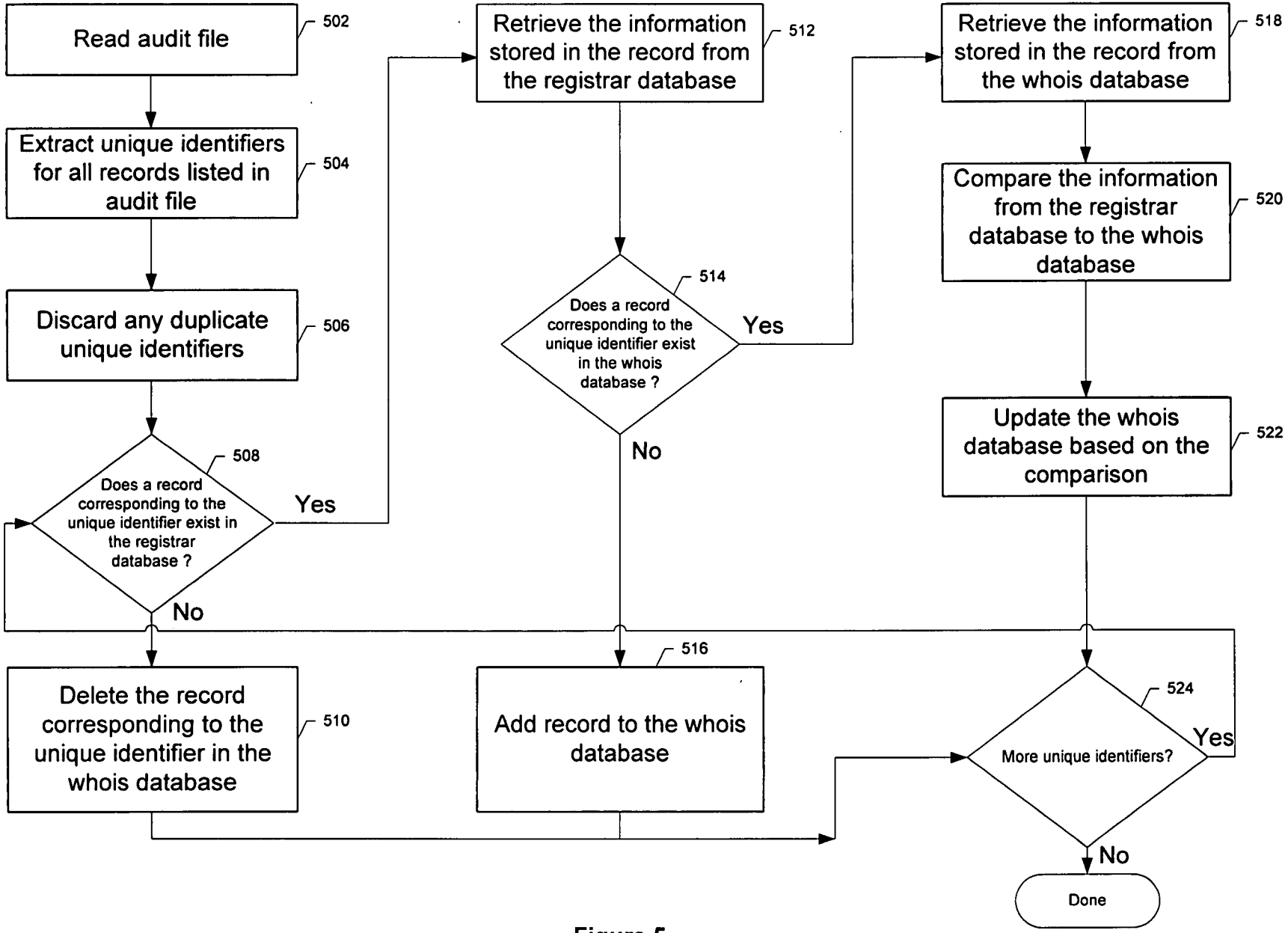
Read audit file
502
Extract unique identifiers for all records listed in audit file
504
Discard any duplicate unique identifiers
506
Does a record corresponding to the unique identifier exist in the registrar database ?
508
Yes
No
Delete the record corresponding to the unique identifier in the whois database
510
Retrieve the information stored in the record from the registrar database
512
Does a record corresponding to the unique identifier exist in the whois database ?
514
Yes
No
Add record to the whois database
516
Retrieve the information stored in the record from the whois database
518
Compare the information from the registrar database to the whois database
520
Update the whois database based on the comparison
522
More unique identifiers?
524
Yes
No
Done

Figure 5

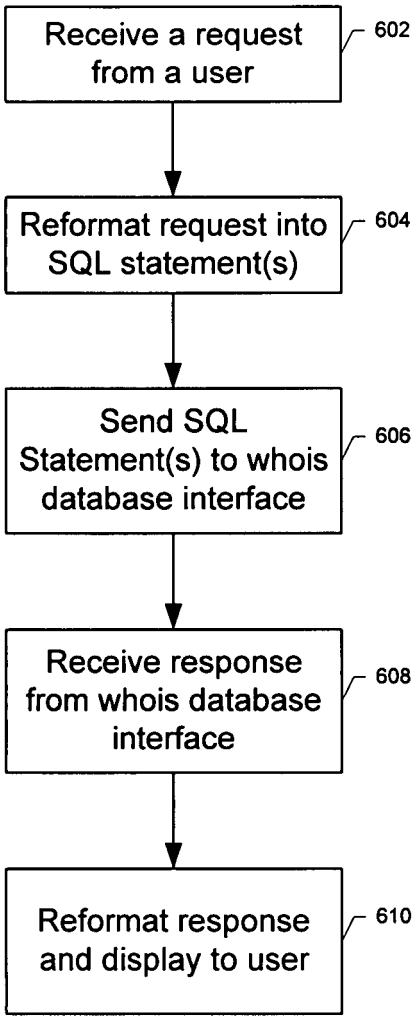
Receive a request from a user
602
Reformat request into SQL statement(s)
604
Send SQL Statement(s) to whois database interface
606
Receive response from whois database interface
608
Reformat response and display to user
610

Figure 6

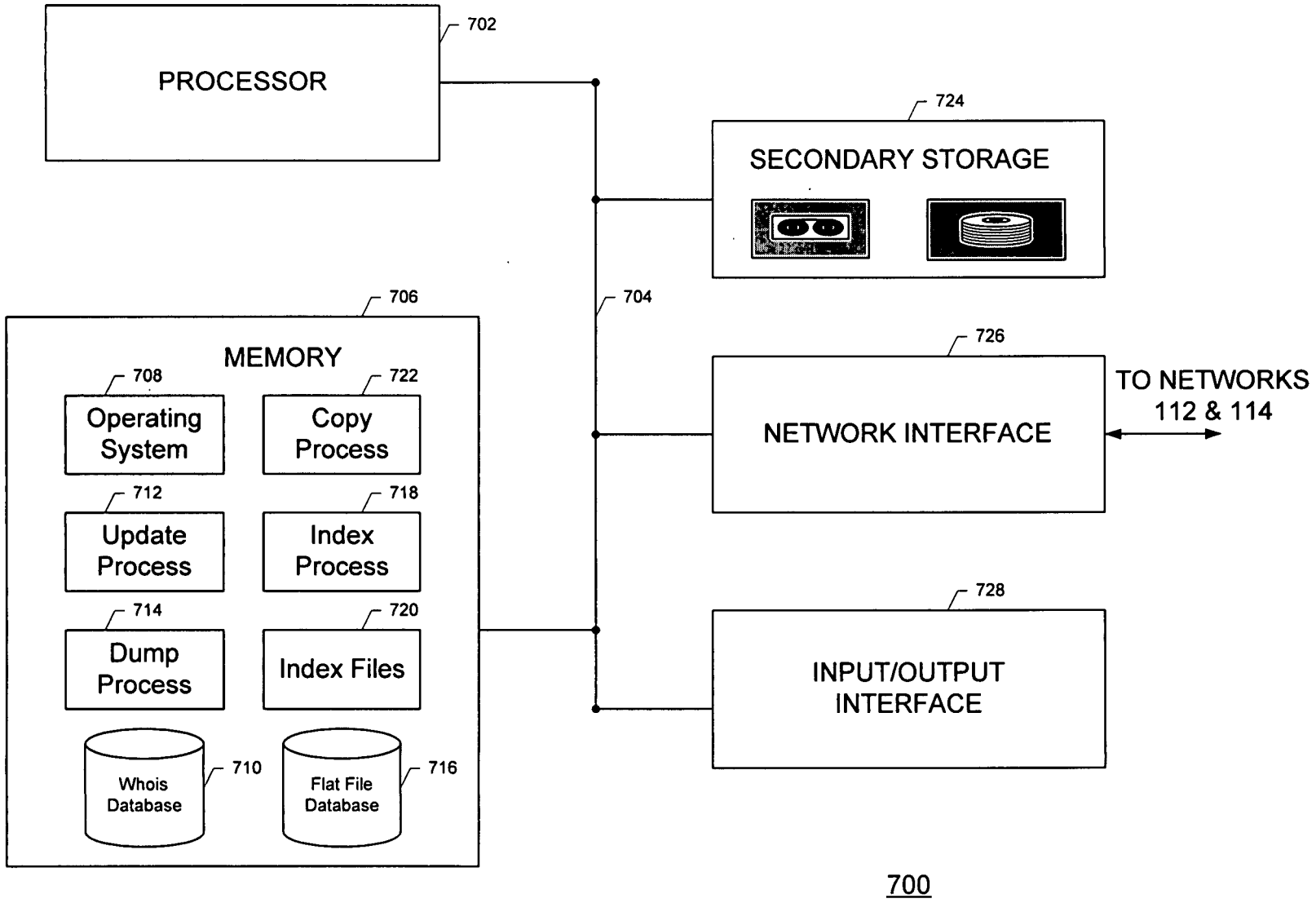
PROCESSOR
702
724
SECONDARY STORAGE
704
706
MEMORY
708
Operating System
722
Copy Process
712
Update Process
718
Index Process
714
Dump Process
720
Index Files
710
Whois Database
716
Flat File Database
726
NETWORK INTERFACE
TO NETWORKS 112 & 114
728
INPUT/OUTPUT INTERFACE
700

Figure 7

Redacted

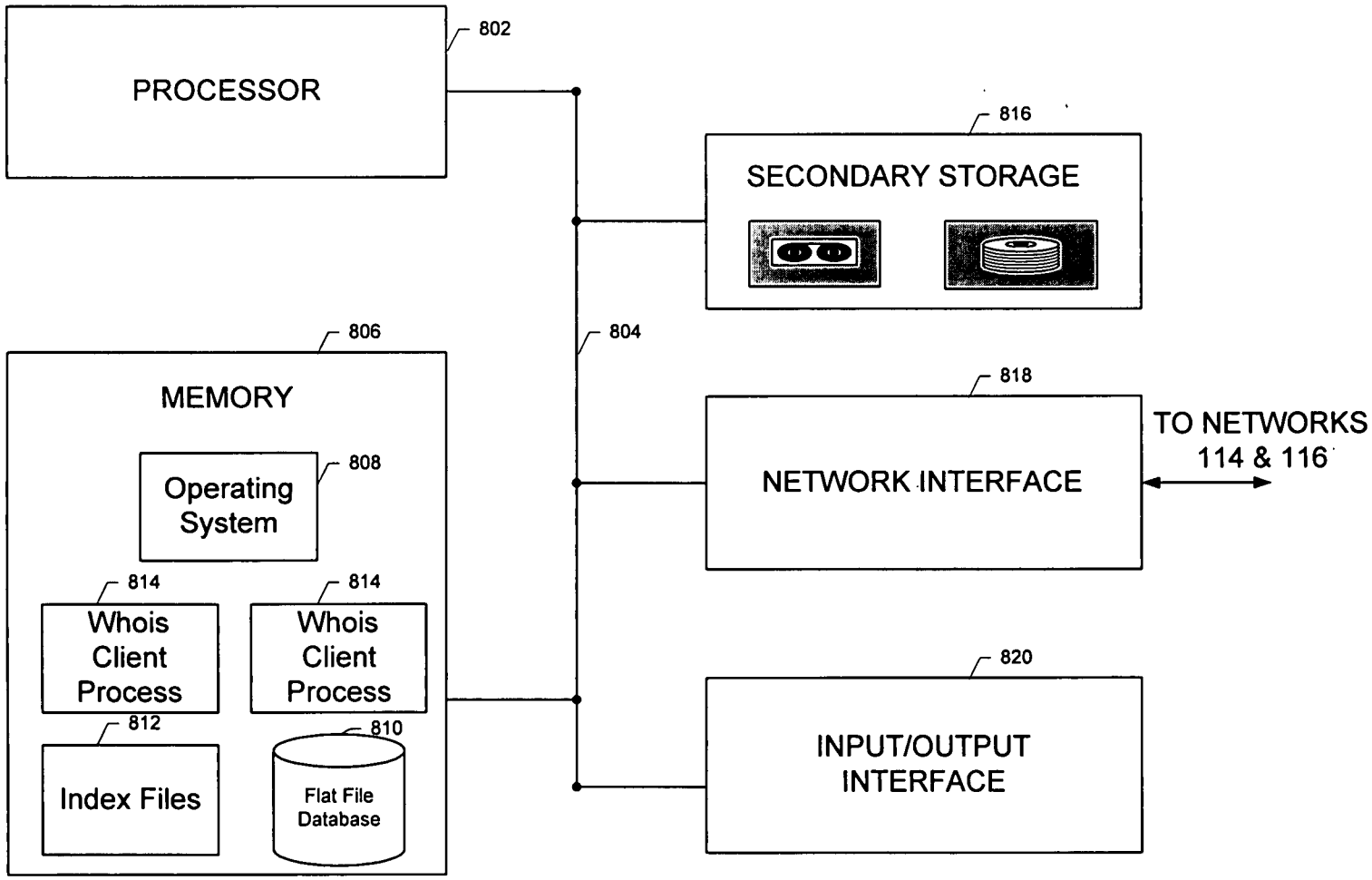

Figure 8